

MOLLUSCA TRAWLED OFF MERIMBULA, NEW  
SOUTH WALES.

BY J. BRAZIER, F.L.S., &c.

The Australian Museum received last month from Mr. F. W. Smithers, Inspector of N.S.W. Fisheries, a small collection of shells trawled by him off Merimbula in 17 fathoms. The only species of special interest is the *Crassatella Kingicola*, Lamk., now for the first time recorded from the New South Wales coast.

Other things might have been obtained if some practical scientists had been sent on behalf of the Museum to look after what came to the surface, instead of its being discarded and thrown back into the sea as rubbish, as is very often done by those who do not know what they are doing. Appended is a list of the species obtained.

1. CASSIS PYRUM, Lamk.

*Cassis pyrum*, Lamarck, Anim. s. Vert. Vol. VII. part 1, p. 226; Kiener, Coq. Viv. p. 39, pl. 13, fig. 25, pl. 15, fig. 30; Reeve, Conch. Icon. Vol. V. pl. 11, fig. 29 b; Conch. Cab. 2nd ed. Kuster, p. 29, pl. 47, figs. 5-6.

The only specimen measures  $2\frac{1}{2}$  inches long, and was the home of an hermit crab, *Clibanarius strigimanus*, White.

2. MYOCHAMA ANOMIOIDES, Stutchbury.

*Myochama anomioides*, Stutchbury, Zool. Journal, Vol. V. p. 97, Tab. Supp. 42, figs. 1, 2, 3, 4; *Myochama anomioides*, Hancock,

Ann. Mag. Nat. Hist. Vol. XI. p. 287, pl. 11. (Animal), 1853 ; *Myochama anomioides*, Woodward, Manual, pl. 23, fig. 13 ; *Myochama anomioides*, Reeve, Conch. Icon. Vol. XII. pl. 1, fig. 4c, 1860 ; *Myochama Keppelliana*, A. Adams, Proc. Zool. Soc. p. 90, pl. 15, fig. 1, 1852 ; *Myochama Stutchburyi*, A. Adams, Proc. Zool. Soc. p. 90, pl. 15, fig. 4, 1852 ; *Myochama Keppelliana*, Reeve, Conch. Icon. Vol. XII. pl. 1, fig. 2, 1860 ; *Myochama anomioides*, Chenu, Manuel Conch. Part 2, p. 52, fig. 219 ; *Myochama Stutchburyi*, Chenu, fig. 218 ; *Myochama Keppelliana*, Chenu, fig. 220, 1862 ; *Myochama anomioides*, Fisher, Manuel de Conch. p. 1159, pl. 23, f. 13.

One living specimen attached to the posterior end of *Crassatella Kingicola*, Lamk. The so-called *Myochama transversa*, A. Adams, and *Myochama tabida*, Reeve, are merely local varieties of *M. anomioides*, Stutchbury, found in and around Moreton Bay and Port Curtis, Queensland. *Myochama anomioides* and varieties I have found on *Venus (Antigona) lamellaris*, Schumacher ; *Circe scripta*, Linné ; *Circe rivularis*, Born ; *Chione roborata*, Hanley ; *Trigonia Lamarcki*, Gray ; *Pectunculus Grayanus*, Dunker ; *Pectunculus holoserica*, Reeve ; *Corbula Smithiana*, Brazier ; *Mitra solida*, Reeve ; *Cardita amabilis*, Deshayes ; *Crassatella Cumingi*, A. Ad. ; in Port Jackson and Moreton Bay.

### 3. VENUS (CHIONE) ROBORATA, Hanley.

*Venus roborata*, Hanley, Proc. Zool. Soc. p. 161, 1844, Recent Shells, App. p. 361, pl. 16, f. 25 ; Reeve, Conch. Icon. Vol. XIV. pl. 23, fig. 183 ; Sowerby, Thes. Conch. Vol. II. p. 723, pl. 157 fig. 117-118.

The single example is not of that ivory-white colour like the type from Tasmania, but of a chocolate-brown, and thinner with the ribs very slightly reflected.

## 4. VENUS (TIMOCLEA) GALLINULA, Lamarck.

*Venus gallinula*, Lamk. Anim. s. Vert. Vol. V. p. 592, No. 25 ; Sowerby, Thes. Conch. Vol. II. p. 730, pl. 162, fig. 225-226.

One single specimen obtained ornamented with three dark brown rays on each valve, concentrically fimbriately ribbed, finely radiately ridged on the posterior side ; interior of the valves dark violet.

## 5. CYTHEREA (CALLISTA) RUTILA, Sowerby.

*Cytherea rutila*, Sowerby, Thes. Conch. Vol. II. p. 743, pl. 163 ; *Dione rutila*, Reeve, Conch. Icon. Vol. XIV. pl. 5, fig. 18 ; *Dione rutila*, Deshayes, Catalogue Conch. of British Mus. p. 58.

One specimen was obtained. The brown rays are not interrupted as is generally the case with this species when fresh from the sea. It is one of the most handsome species found on the coast, being entirely of a splendid bright pink with the brown rays and zones showing out in bold relief ; after a few days they begin to fade, and the bright pink only shows round the margins.

## 6. CRASSATELLA KINGICOLA, Lamarck.

*Crassatella Kingicola*, Lamarck, Anim. s. Vert. Vol. V. p. 481, No. 1 ; *Crassatella Kingicola*, Reeve, Conch. Icon. Vol. I. pl. 1, fig 5.

Two specimens obtained differ very much ; one is ovately orbicular, slightly depressed, the umbones strongly plaited, of a rose tinge-colour ; anterior side rounded, posterior side rather long angulated : the second one partakes of the character of *Crassatella castanea*, Reeve, the anterior side rounded ; posterior angular and abrupt. I believe that seven of the so-called species of *Crassatella* from Australia are one and the same species, and are not even to be called varieties, viz. :—*Crassatella Kingicola*, Lamarck ; *C. donacina*, Lamarck ; *C. castanea*, Reeve ; *C. decipiens*, Reeve ; *C. erronea*, Reeve ; *C. pulchra*, Reeve ; and *C. Cumingi*, A. Adams.

During the S.E. gale of May this year, Mr. E. Richards found washed up on the beach two miles north of Ballina, Richmond River, two specimens of a *Crassatella* which are evidently the young of Reeves' *C. pulchra* = *C. Kingicola*, Lamarck.

7. PECTUNCULUS GRAYANUS, Dunker.

*Pectunculus Grayanus*, Dunker, Proc. Zool. Soc. p. 357, 1856.

Sixteen specimens were obtained. A thick orbicular shell, mostly white with angular streaks and flames of chestnut-brown colour; it is a very variable species a number of specimens having a fringe of velvety epidermis round the margins.